## Homework 2 Boolean expressions Unit 8 Boolean algebra



## **Homework 2 Boolean Expressions**

1. Simplify the following Boolean expressions.

(a) 
$$A^{(B^{(1)})}$$

(b) 
$$\neg (\neg A \land \neg B)$$
 [1]

(c) 
$$(A^A B)^V (A^B B)$$
 [1]

2. Simplify the following Boolean expressions, explaining each step.

(a) 
$$A ^{\neg} B ^{\lor} A ^{\neg} (B ^{\lor} C)$$
 [3]

3. Write expressions for P, Q, R and S and T represented in the following logic circuit. Do not simplify the expressions. [5]

